JEFFERSON CO CONS PWSD C 1

2012 Annual Water Quality Report

(Consumer Confidence Report)

This report is intended to provide you with important information about your drinking water and the efforts made to provide safe drinking water.

Attencion!

Este informe contiene información muy importante. Tradúscalo o preguntele a alguien que lo entienda bien.

[Translated: This report contains very important information. Translate or ask someone who understands this very well.]

What is the source of my water?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Our water comes from the following source(s):

Source Name	Туре
WELL # 1	GROUND WATER

Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided below.

Buyer Name	Seller Name
JEFFERSON CO CONS PWSD C 1	MO AMERICAN ST LOUIS CO ST CHARLES CO

Source Water Assessment:

The Department of Natural Resources conducted a source water assessment to determine the susceptibility of our water source to potential contaminants. This process involved the establishment of source water area delineations for each well or surface water intake and then a contaminant inventory was performed within those delineated areas to assess potential threats to each source. Assessment maps and summary information sheets are available on the internet at http://maproom.missouri.edu/swipmaps/pwssid.htm. To access the maps for your water system you will need the State-assigned identification code, which is printed at the top of this report. The Source Water Inventory Project maps and information sheets provide a foundation upon which a more comprehensive source water protection plan can be developed.

Why are there contaminants in my water?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Contaminants that may be present in source water include:

- A. Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- B. Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
- C. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- D. Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- E. Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.
- In order to ensure that tap water is safe to drink, the Department of Natural Resources prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department of Health regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Is our water system meeting other rules that govern our operations?

The Missouri Department of Natural Resources regulates our water system and requires us to test our water on a regular basis to ensure its safety. Our system has been assigned the identification number MO6024295 for the purposes of tracking our test results. Last year, we tested for a variety of contaminants. The detectable results of these tests are on the following pages of this report. Any violations of state requirements or standards will be further explained later in this report.

How might I become actively involved?

If you would like to observe the decision-making process that affect drinking water quality or if you have any further questions about your drinking water report, please call us at 636-942-3869 to inquire about scheduled meetings or contact persons.

Do I need to take any special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Special Lead and Copper Notice:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. JEFFERSON CO CONS PWSD C 1 is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791) or at http://water.epa.gov/drink/info/lead/index.cfm.

MO6024295

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(Consumer Confidence Report) Contaminants Report

Definitions:

MCLG: Maximum Contaminant Level Goal, or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. MCL: Maximum Contaminant Level, or the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

SMCL. Secondary Maximum Contaminant Level, or the secondary standards that are non-enforceable guidelines for contaminants and may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor or color) in drinking water. EPA recommends these standards but does not require water systems to comply

AL: Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow..

TT: Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.

90th percentile: For lead and Copper testing. 10% of test results are above this level and 90% are below this level.

Level Found: is the average of all test results for a particular contaminant.

Range of Detections: Shows the lowest and highest levels found during a testing period, if only one sample was taken, then this number equals the Level Found.

MRLDG: Maximum Residual Disinfectant Level Goal, or the level of a drinking water disinfectant below which there is no known or expected risk to health.

MRDL: Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water.

RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

LRAA: Locational Running Annual Average, or the locational average of sample analytical results for samples taken during the previous four calendar quarters.

Abbreviations:

TTHM: Total Trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) as a group.

HAA5: Haloacetic Acids (mono-, di- and tri-chloracetic acid, and mono- and di-bormoacetic acid) as a group.

ppb: parts per billion or micrograms per liter.

ppm: parts per million or milligrams per liter.

n/a: not applicable.

NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.

MFL: million fibers per liter, used to measure asbestos concentration.

nd: not detectable at testing limits.

The state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Records with a sample year more than one year old are still considered representative.

Regulated Contaminants

Disinfection Byproducts	Monitoring Period	RAA	Range (low – high)	Unit	MCL	MCLG	Typical Source
(HAA5)	2012	32	19.1 - 45.6	ppb	60	0	Byproduct of drinking water disinfection
TTHM	2012	48	18.4 - 69.4	ppb	80	0	Byproduct of drinking water disinfection

Disinfection Byproducts	Sample Point	Monitoring Period	LRAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
(HAA5)	DBPDUAL-01	2012	31	20.4 - 34.7	ppb	60	0	Byproduct of drinking water disinfection
(HAA5)	DBPDUAL-02	2012	32	19.1 - 35.3	ppb	60	0	Byproduct of drinking water disinfection
(HAA5)	DBPDUAL-03	2012	38	23.8 - 38	ppb	60	0	Byproduct of drinking water disinfection
(HAA5)	DBPDUAL-04	2012	40	21.8 - 45.6	ppb	60	0	Byproduct of drinking water disinfection
TTHM	DBPDUAL-01	2012	50	24.5 - 50.8	ppb	80	0	Byproduct of drinking water disinfection
TTHM	DBPDUAL-02	2012	59	27.2 - 69.4	ppb	80	0	Byproduct of drinking water disinfection
TTHM	DBPDUAL-03	2012	55	25.7 - 65.8	ppb	80	0	Byproduct of drinking water disinfection
TTHM	DBPDUAL-04	2012	51	18.4 - 52.3	daa	80	0	Byproduct of drinking water disinfection

Lead and Copper	Date	90th Percentile	Range (low – high)	Unit	AL	Sites Over AL	Typical Source
COPPER	2008 - 2010	0.0181	0.00209 - 0.0406	ppm	1.3	0	Corrosion of household plumbing systems
LEAD	2008 - 2010	2.16	1.18 - 3.3	ppb	15	0	Corrosion of household plumbing systems

Microbiological	Result	MCL	MCLG	Typical Source
COLIFORM (TCR)	In the month of May, 4.26% of samples returned as positive	MCL: Systems that Collect 40 or More Samples per Month - No more than 5% positive monthly samples;	0	Naturally present in the environment

Violations and Health Effects Information

During the 2012 calendar year, we had the below noted violation(s) of drinking water regulations.

Compliance Period	Analyte	Туре
No Violations Occurred in the Calen	dar Year of 2012	

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Reseller Contaminants

Regulated Contaminants	Collection Date	Water System	Highest Value	Range (low – high)	Unit	MCL	MCLG	Typical Source
2,4-D	4/16/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.5	0 - 0.5	ppb	70	70	Runoff from herbicide used on row crops
ANTIMONY, TOTAL	7/5/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.5	0 - 0.5	ppb	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
ARSENIC	7/5/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	1	0 - 1	ppb	10	0	Erosion of natural deposits
ATRAZINE	4/16/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.6	0 - 0.6	ppb	3	3	Runoff from herbicide used on row crops
BENZO(A)PYRENE	10/9/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	40	0 - 40	ppt	200	0	Leaching from linings of water storage tanks and distribution lines
DI(2-ETHYLHEXYL) PHTHALATE	1/5/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	1.1	0 - 1.1	ppb	6	0	Discharge from rubber and chemical factories
DICHLOROMETHANE	10/9/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	1.1	0 - 1.1	ppb	5	0	Discharge from pharmaceutical and chemical factories
DIQUAT	7/5/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.6	0 - 0.6	ppb	20	20	Runoff from herbicide use
FLUORIDE	7/5/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.8	0.66 - 0.8	ppm	4	4	Natural deposits; Water additive which promotes strong teeth
NITRATE-NITRITE	7/5/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	1.41	0.21 - 1.41	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
PICLORAM	10/9/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.2	0 - 0.2	ppb	500	500	Herbicide runoff
SELENIUM	7/5/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	3	0 - 3	ppb	50	50	Erosion of natural deposits

Disinfection Byproducts	Monitoring Period	Water System	Highest RAA	Range (low – high)	Unit	MCL	MCLG	Typical Source
(HAA5)	2012	MO AMERICAN ST LOUIS	21	8.5 - 38.7	ppb	60	0	Byproduct of drinking water
		CO ST CHARLES CO						disinfection
TTHM	2012	MO AMERICAN ST LOUIS	21	3.3 - 72.4	ppb	80	0	Byproduct of drinking water
		CO ST CHARLES CO						disinfection

Reseller Violations and Health Effects Information

	During the 2012 calendar year, the wat	ter system(s) that we p	urchase water from had th	ne below noted violation(s) of	f drinking water regulations.				
Water System		Type	Category	Analyte	Compliance Period				
	No Violations Occurred in the Colondar Voor of 2012								

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Optional Monitoring (not required by EPA)

Optional Contaminants

Monitoring is not required for optional contaminants.

Reseller Secondary Contaminants	Collection Date	Water System	Highest Value	Range (low - high)	Unit	SMCL
ALKALINITY, TOTAL	12/4/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	281	72 - 281	MG/L	
ALUMINUM	10/9/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.01	0 - 0.01	MG/L	0.05
BORON, TOTAL	10/3/2011	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.097	0 - 0.097	MG/L	
BROMIDE	1/12/2011	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.02	0 - 0.02	MG/L	0.05
BROMOCHLOROACETIC ACID	1/12/2011	MO AMERICAN ST LOUIS CO ST CHARLES CO	5.6	0 - 5.6	UG/L	
CALCIUM	1/5/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	24	13 - 24	MG/L	
CARBON, DISSOLVED ORGANIC (DOC)	5/11/2011	MO AMERICAN ST LOUIS CO ST CHARLES CO	6.26	2.39 - 6.26	MG/L	
CHLORATE	7/11/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.22	0.08 - 0.22	MG/L	
CHLORIDE	4/16/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	61.4	16 - 61.4	MG/L	250
MAGNESIUM	10/9/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	22	9 - 22	MG/L	
MOLYBDENUM, TOTAL	1/12/2011	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.003	0 - 0.003	MG/L	
POTASSIUM	10/3/2011	MO AMERICAN ST LOUIS CO ST CHARLES CO	7	0 - 7	MG/L	
SILICA	1/5/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	13	0 - 13	MG/L	
SODIUM	10/9/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	83.2	13.9 - 83.2	MG/L	
STRONTIUM	10/3/2011	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.2	0 - 0.2	MG/L	
SULFATE	10/9/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	225.1	10.3 - 225.1	MG/L	250
TDS	7/5/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	350	185 - 350	MG/L	500
UV ABSORBANCE @254 NM	5/3/2012	MO AMERICAN ST LOUIS CO ST CHARLES CO	0.161	0.009 - 0.161	CM-1	